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FORM PTO-1449 (Rev. 2032)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 6960.US.P1	Serial No. 10/625,420
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Applicant Auestad, et al.	
		Filing Date July 23, 2003	Group

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appro.)

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Name	Class	Subclass	Translation (Yes No)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

LAK		Ameri A. The effects of cannabinoids on the brain. Progress in Neurobiology, 58:315-348, (1999).
		Arbuckle LD and Innis SM. Docosahexaenoic acid is transferred through maternal diet to milk and to tissues of natural milk-fed piglets. J Nutr, 123(10): 1668-11675, (1993).
		Auestad N, Korsak RA, Bergstrom JD, and Edmond J. Milk-substitutes comparable to rat's milk; their preparation, composition, and impact on development and metabolism in the artificially reared rat. British Journal of Nutrition, 61: 495-518, (1989).
		Barinaga M. Pot, heroin unlock new areas for neuroscience. Science, 258:1882-1884, (1992).
		Berger A, Crozier G, Bisogno T, Cavaliere, Innis S, and Di Marzo V. Anandamide and diet: Inclusion of dietary arachidonate and docosahexaenoate leads to increased brain levels of the corresponding N-acylethanolamines in piglets. PNAS, 98(11): 6402-6406, (2001).
		Berthoud H-R. An overview of neural pathways and networks involved in the control of food intake and selection. In: Neural and Metabolic Control of Macronutrient Intake (H-R Berthoud and RJ Seeley, Eds). CRC Press, Boca Raton, FL. Chapter 24: 361-387, (2000).
		Bisogno T, Berrendero F, Ambrosino G, Cebeira M, Ramos JA, Fernandez-Ruiz JJ, and Di Marzo V. Brain regional distribution of endocannabinoids: implications for their biosynthesis and biological function. Biochemical and Biophysical Research Communications, 256: 377-380, (1999).
		Buckley NE, Hansson S, Harta G, and Mezey E. Expression of the CB ₁ and CB ₂ receptor messenger RNAs during embryonic development in the rat. Neuroscience, 82(4): 1131-1149, (1998).
LAK		Centers for Disease Control and Prevention. Obesity and Overweight: Basics about overweight and obesity. http://www.cdc.gov/nccdphp/dnpa/obesity/basics.htm (2002)
EXAMINER		DATE CONSIDERED
<i>Philip Peoples</i>		3/8/05

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AEP		Chaperon F and Thiebot M-H. Behavioral effects of cannabinoid agents in animals. Critical Reviews in Neurobiology, 13(3): 243-281, (1999).
		de la Presa Owens S and Innis SM. Docosahexaenoic and arachidonic acid prevent a decrease in dopaminergic and serotonergic neurotransmitters in frontal cortex caused by a linoleic and α -linolenic acid deficient diet in formula-fed piglets. Journal of Nutrition, 129: 2088-2093, (1999).
		de la Presa Owens S and Innis SM. Diverse, region-specific effects of addition of arachidonic and doxosahexanoic acids to formula with low or adequate linoleic and α -linolenic acids on piglet brain monoaminergic neurotransmitters. Pediatric Research, 48: 125-130, (2000).
		Devane WA, Hanus L, Breuer A, Pertwee RG, Stevenson LA, Griffin G, Gibson D, Mandelbaum A, Eltinger A, and Mechoulam R. Isolation and structure of a brain constituent that binds to the cannabinoid receptor. Science, 258: 1946-1949, (1992).
		DiMarzo V, DePetrucellis L, Bisogno T, and Melck D. Metabolism of anandamide and 2-arachidonoylglycerol: an historical overview and some recent developments. Lipids, 34:S319-S325, (1999).
		DiMarzo V, Goparaju SK, Wang L, Liu J, Batkai S, Jarai Z, Fezza F, Miura GI, Palmiter RD, Sugiura T, and Kunos G. Leptin-regulated endocannabinoids are involved in maintaining food intake. Nature, 410:822-825, (2001).
		Farquharson J, Jamieson EC, Abbasi KA, Patrick WJ, Logan RW, and Cockburn F. Effect of diet on the fatty acid composition of the major phospholipids of infant cerebral cortex. Arch Dis Child, 72(3): 198-203, (1995).
		Felder CC, Briley EM, Axelrod J, Simpson JT, Mackie K, and Devane WA. Anandamide, an endogenous cannabimimetic eicosanoid, binds to the cloned human cannabinoid receptor and stimulates receptor-mediated signal transduction. Proc. Natl. Acad. Sci., 90:7656-7660, (1993).
		Felder CC, Nielsen A, Briley EM, Palkovits M, Priller J, Axelrod J, Nguyen DN, Richardson JM, Riggin RM, Koppel GA, Paul SM, Becker GW. Isolation and measurement of the endogenous cannabinoid receptor agonist, anandamide, in brain and peripheral tissues of human and rat. FEBS Letters, 393:231-235, (1996).
		Folch J, Lees M, and Sloane-Stanley GA. J. Biol. Chem. 226:497, (1957).
LAR		Fontana A, Di Marzo V, Cadas H, and Piomelli D. Analysis of anandamide, an endogenous cannabinoid substance, and of other natural N-acylethanolamines. Prostaglandins Leukotrienes and Essential Fatty Acids, 53:301-308, (1995).
	EXAMINER <i>Kelli O'Reilly</i>	DATE CONSIDERED 318/05

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FOREIGN PATENT DOCUMENTS

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

LAP		Fride E, Ginzburg Y, Breuer A, Bisogno T, Di Marzo V, Mechoulam R. Critical role of the endogenous cannabinoid system in mouse pup suckling and growth. European Journal of Pharmacology, 419:207-214, (2001).
		Gaoni Y and Mechoulam R. Isolation, structure and partial synthesis of an active constituent of hashish. J. Am. Chem. Soc. 86:1646 (1964).
		Giang DK and Cravatt BF. Molecular characterization of human and mouse fatty acid amide hydrolases. Proc. Natl. Acad. Sci., 94:2238-2242, (1997).
		Giuffrida A, Beltramo M, and Piomelli D. Mechanisms of endocannabinoid inactivation: biochemistry and pharmacology. Journal of Pharmacology and Experimental Therapeutics, 298(1): 7-14, (2001).
		Goparaju SK, Ueda N, Yamaguchi H, and Yamamoto S. Anandamide amidohydrolase reacting with 2-arachidonoylglycerol, another cannabinoid receptor ligand. FEBS Letters, 422:69-73, (1998).
		Guzman M and Sanchez C. Effects of cannabinoids on energy metabolism. Life Sciences, 65 (6/7):657-664, (1999).
		Hanus L, Gopher A, Almog S, and Mechoulam R. Two new unsaturated fatty acid ethanlamides in brain that bind to the cannabinoid receptor. J Med. Chem., 36:3032-3034, (1993).
		Hao S, Avraham Y, Mechoulam, and Berry EM. Low dose anandamide affects food intake, cognitive function, neurotransmitter and corticosterone levels in diet-restricted mice. European Journal of Pharmacology, 392:147-156, (2000).
		Harnack LJ, Jeffrey RW, and Bouteille KN. Temporal trends in energy intake in the United States: an ecological perspective. An J Clin Nutr, 71:1478-1484, (2000).
		Havel PJ. Peripheral signals conveying metabolic information to the brain: short-term and long-term regulation of food intake and energy homeostasis. Exp Bio Med, 226 (11): 963-977, (2001).
		Heird WC. Parental feeding behavior and children's fat mass. Am J Clin Nutr, 75:451-452, (2002).
LAP		Hillard CJ. Biochemistry and pharmacology of the endocannabinoids arachidonylethanolamide and 2-arachidonoylglycerol. Prostaglandins and other Lipid Mediators, 61:3-18, (2000).

EXAMINER <i>Aelle Oloyed</i>	DATE CONSIDERED 3/8/05
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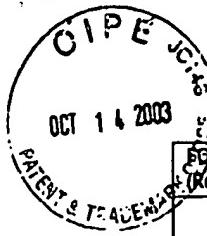
FOREIGN PATENT DOCUMENTS

Document Number	Date	Name	Class	Subclass	Translation (Yes No)

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

LAC		Kaiyala KJ, Woods SC, and Schwartz MW. New model for the regulation of energy balance and adiposity by the central nervous system. Am J Clin Nutr, 62 (suppl): 1223S-1234S, (1995).
		Kempe K, Hsu-F-F, Bohrer A, and Turk J. Isotope dilution mass spectrometric measurements indicate that arachidonyl ethanolamine, the proposed endogenous ligand of the cannabinoid receptor, accumulates in rat brain tissue post mortem but is contained at low levels in or is absent from fresh tissue. Journal of Biological Chemistry, 271 (29): 17287-17295, (1996).
		Kirkham TC, Williams CM, Fezza F, and Di Marzo V. Endocannabinoid levels in rat limbic forebrain and hypothalamus in relation to fasting, feeding, and satiation: stimulation of eating by 2-arachidonoyl glycerol. British Journal of Pharmacology, 136:550-557, (2002).
		Kondo S, Kondo H, Nakane S, Kodaka T, Tokumura A, Waku K, and Sugiura T. 2-Arachidonoylglycerol, an endogenous cannabinoid receptor agonist: identification as one of the major species on monoacylglycerols in various rat tissues, and evidence for its generation through Ca ²⁺ -dependent and -independent mechanisms. FEBS Letters, 429: 152-156, (1998).
		Liu J, Lee T, Bobik, Jr. E, Guzman-Harty M, and Hastilow C. Quantitative Determination of Monoglycerides and Diglycerides by High-Performance Liquid Chromatography and Evaporative Light-Scattering Detection. Journal of the American Oil Chemists' Society, 70(4):343-347, (1993).
		Makrides M, Neumann MA, Byrad RW, Simmer K, and Gibson RA. Fatty acid composition of brain, retina, and erythrocytes in breast- and formula-fed infants. Am J. Clin Nutr, 60(2):189-194, (1994).
		McLaughlin CR, Martin BR, Compton DR, and Abood ME. Cannabinoid receptors in developing rats: detection of mRNA and receptor binding. Drug and Alcohol Dependence, 36:27-31, (1994).
		Mechoulam R, Ben-Shabat S, Hanus L, Ligumski L, Kaminski NE, Schatz AR, Gopher A, Amlog S, Martin BR, and Compton DR. Identification of an endogenous 2-monoglyceride, present in canine gut, that binds to cannabinoid receptors. Biochem Pharmacol, 50:83-90, (1995).
		Mechoulam R and Fride E. A hunger for cannabinoids. Nature, 410:763-764, (2001).
WRC		Mechoulam R, Fride E, and Di Marzo V. Endocannabinoids. European Journal of Pharmacology, 359:1-18, (1998).
	EXAMINER <i>Selma Popple</i>	DATE CONSIDERED <i>3/8/05</i>

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

LOL		Muller MJ, Koertringer I, Mast M, Languix, and Frunch A. Physical activity and diet in 5 to 7 years old children. Public Health Nutrition, 2(3a):443-444, (1999).
		Onaivi ES, Leonard CM, Ishiguro H, Zhang PW, Lin Z, Akinshola BE, and Uhl GR. Endocannabinoids and cannabinoid receptor genetics. Progress in Neurobiology, 66:307-344, (2002).
		Onis M de and Blossner M. Prevalence and trends of overweight among preschool children in developing countries.. Am J Clin Nutr, 72:1032-1039, (2000).
		Patricelli MP and Cravatt BF. Proteins regulating the biosynthesis and inactivation of neuromodulatory fatty acid amides. Vitamins and Hormones, 62:95-131, (2001).
		Reeves PG, Nielsen FH, and Fahey GC, Jr. AIN-93 purified diets for laboratory rodents: final report of the American Institute of Nutrition ad hoc writing committee on the reformulation of the AIN-76A rodent diet. Journal of Nutrition, 123:1939-1951, (1993).
		Salzet M, Breton C, Bisogno T, and Di Marzo V. Comparative biology of the endocannabinoid system—possible role in the immune response. Eur J Biochem, 267:4917-4927, (2000).
		Schmid PC, Krebsbach RJ, Perry SR, Dettmer TM, Maasson JL, and Schmid HHO. Occurrence and postmortem generation of anandamide and other long-chain N-acylethanolamines in mammalian brain. FEBS Letters, 375:117-120, (1995).
		Schmid PC, Schwartz KD, Smith CN, Krebsbach RJ, Berdyshev EV, and Schmid HHO. A sensitive endocannabinoid assay. The simultaneous analysis of N-acylethanolamines and 2-monoacylglycerols. Chemistry and Physics of Lipids, 104:185-191, (2000).
		Schneider D. International trends in adolescent nutrition. Social Science & Medicine, 51:955-967 (2000).
		Smart JL, Stephens DN, and Katz HB. Growth and development of rats artificially reared on a high or a low plane of nutrition. British Journal of Nutrition, 49: 497-506, (1983).
		Smart JL, Stephens DN, Tonkiss J, Auestad NS, and Edmond J. Growth and development of rats artificially reared on different milk-substitutes. British Journal of Nutrition, 52: 227-237, (1984).
		Sonnenberg N, Bergstrom JD, Ha YH, and Edmond J. Metabolism in the artificially reared rat pup: effect of an atypical rat milk substitute. Journal of Nutrition, 112: 1506-1514, (1982).
MR		Spruijt-Metz D, Lindquist CH, Birch LL, Fisher JO, and Goran MI. Relation between mothers' child-feeding practices and children's adiposity. Am J Clin Nutr, 75:581-586, (2002).

EXAMINER <i>Belle O'Leary</i>	DATE CONSIDERED 318/05
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

LAW	Sugiura T, Kodaka T, Nakane S, Kishimoto A, Konda S, and Waku K. 2-Arachidonylglycerol: a possible endogenous cannabinoid ligand in brain. Biochem. Biophys. Res. Commun., 215:89-97, (1995).	
	Sugiura T and Waku K. 2-Arachidonylglycerol: a possible multifunctional lipid mediator in the nervous and immune systems. Annals New York Academy of Sciences, VOL: 344-346, (2000).	
	Van Dijk G, Chavez M, Reidy CA, and Woods SC. Adiposity signals and macronutrient selection. In: Neural and Metabolic Control of Macronutrient Intake. (H-R Berthoud and RJ Seeley, Eds). CRC Press, Boca Raton, FL. Chapter 30: 465-472, (2000).	
	Wang Y, Liu Y, Ito Y, Hashiguchi T, Kitajima I, Yamakuchi M, Shimizu H, Matsuo S, Imaizumi H, and Maruyama I. Simultaneous measurement of anandamide and 2-arachidonoylglycerol by polymyxin B-selective adsorption and subsequent high performance liquid chromatography analysis: increase in endogenous cannabinoids in the sera of patients with endotoxic shock. Analytical Biochemistry, 294:73-82, (2001).	
	Ward GR, Huang Y-S, Bobik E, Xing H-C, Mutsaers L, Auestad N, Montalto M, and Wainwright P. Long-chain polyunsaturated fatty acid levels in formulae influence deposition of docosahexaenoic acid and arachidonic acid in brain and red blood cells of artificially reared neonatal rats. Journal of Nutrition, 128: 2473-2487, (1998).	
	Ward GR, Huang Y-S, Xing H-C, Bobik E, Wauben I, Auestad N, Montalto M, and Wainwright PE. Effects of γ -linolenic acid and docosahexaenoic acid in formulae on brain fatty acid composition in artificially reared rats. Lipids, 34: 1057-1063, (1999).	
	Wainwright PE, Xing H-C, Ward GR, Huang Y-S, Bobik E, Auestad N, and Montalto M. Water maze performance is unaffected in artificially reared rats fed diets supplemented with arachidonic acid and docosahexaenoic acid. Journal of Nutrition, 129: 1079-1089, (1999).	
	Williams CM and Kirkham TC. Anandamide induces overeating: mediation by central cannabinoid (CB ₁) receptors. Psychopharmacology, 143:315-317, (1999).	
LAW	Williams G, Harrold JA, and Cutler DJ. The hypothalamus and the regulation of energy homeostasis: lifting the lid on a black box. Proceedings of the Nutritional Society, 59:385-396, (2000).	
REEDER	EXAMINER <i>Reeder</i>	DATE CONSIDERED <i>7/18/05</i>

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